

The listing of claims will replace all prior versions and listing of claims in the application:

**Listing of Claims:**

Claim 1. (currently amended) Method for treating optical signals from a source thereof, which comprises the steps of:

- (a) providing a rotatable diffractive optical element (RDOE) having a surface carrying a holographic diffraction grating including an array of superimposed facets, each of said facets carrying a diffraction gratings~~(s)~~ which are superimposed, each diffraction grating being angularly offset with respect to each other;
- (b) directing a source of at least 4 input optical signals~~(s)~~, each of said input signal(s) being associated with a given wavelength, onto said RDOE to generate output signal(s);
- (c) supplying ~~one~~ 4 or more output stations~~(s)~~; and
- (d) rotating said RDOE to distribute any said output optical signals~~(s)~~ to any said output stations~~(s)~~.

Claim 3. (previously presented) The method of claim 1, wherein said RDOE is provided as a magnet having said holographic diffraction grating attached thereto, and being magnetically coupled to a coil energizable for rotation of said magnet and said diffraction grating.

Claim 17. (currently amended) A system for treating optical signals from a source thereof, which comprises:

a source, a rotatable diffractive optical element (RDOE), and at least 4 output stations~~(s)~~, wherein

- (a) said source carries at least 4 input optical signals~~(s)~~, each of said signals~~(s)~~ being associated with a particular wavelength;
- (b) said rotatable diffractive optical element (RDOE) has a surface carrying a holographic diffraction grating including an array of superimposed facets, each of said facets carrying a diffraction gratings~~(s)~~ which are superimposed, each diffraction grating being angularly offset with respect to each other, said RDOE being positioned to intercept said input optical signals~~(s)~~ for generating output optical signals~~(s)~~ and distributing any said output optical signals~~(s)~~, to any said output optical stations~~(s)~~ and;

- (c) said output stations~~s~~ being positioned to receive said output optical signals~~s~~ from said RDOE.

Claim 32. (currently amended) In a method for treating optical signals wherein optical signals provided by fiber optic cable(s) or laser diode(s) as input optical signals are distributed among output stations as output optical signals, each of said output stations comprising optical connector(s) positioned to receive said output optical signals, said optical connectors being selectively combinable to permit any combination of said output optical signals, the improvement which comprises the steps of:

- (a) providing a rotatable diffractive optical element (RDOE) having a surface carrying a holographic diffraction grating including an array of superimposed facets, each of said facets carrying a diffraction grating(s) which are superimposed, each being angularly offset with respect to each other;
- (b) directing said source of at least 4 input optical signals onto said RDOE to generate output signals, each of said input signals being associated with a given wavelength; and
- (c) rotating said RDOE to distribute any said output optical signals to any said of at least 4 output stations.